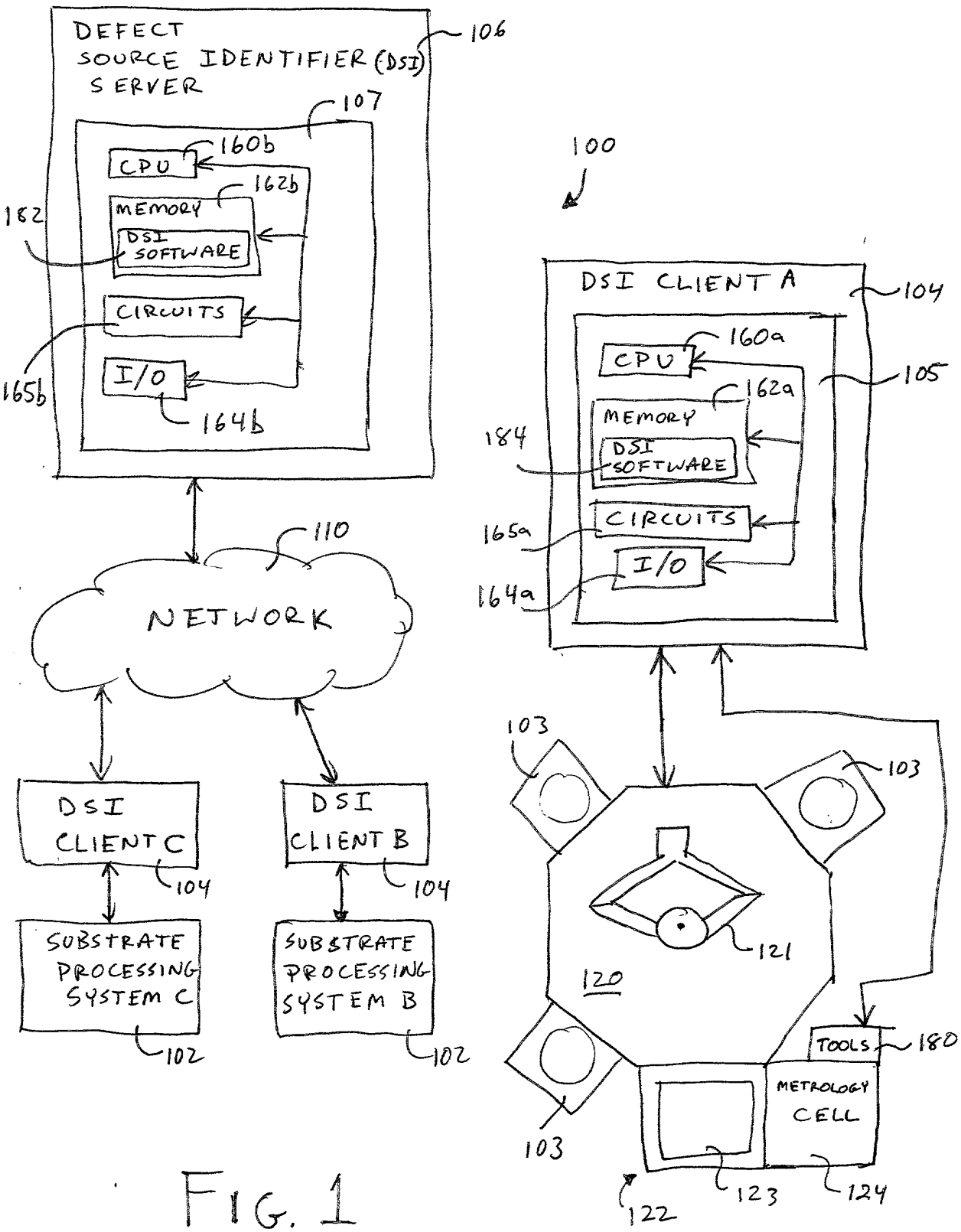
DEFECT SOURCE IDENTIFIER (DSI) SERVER
106
107
CPU
160b
MEMORY
162b
182
DSI SOFTWARE
CIRCUITS
165b
I/O
164b
100
DSI CLIENT A
104
105
160a
162a
184
165a
164a
110
NETWORK
DSI CLIENT C
DSI CLIENT B
SUBSTRATE PROCESSING SYSTEM C
SUBSTRATE PROCESSING SYSTEM B
102
103
121
120
TOOLS
180
METROLOGY CELL
122
123
124

FIG. 1

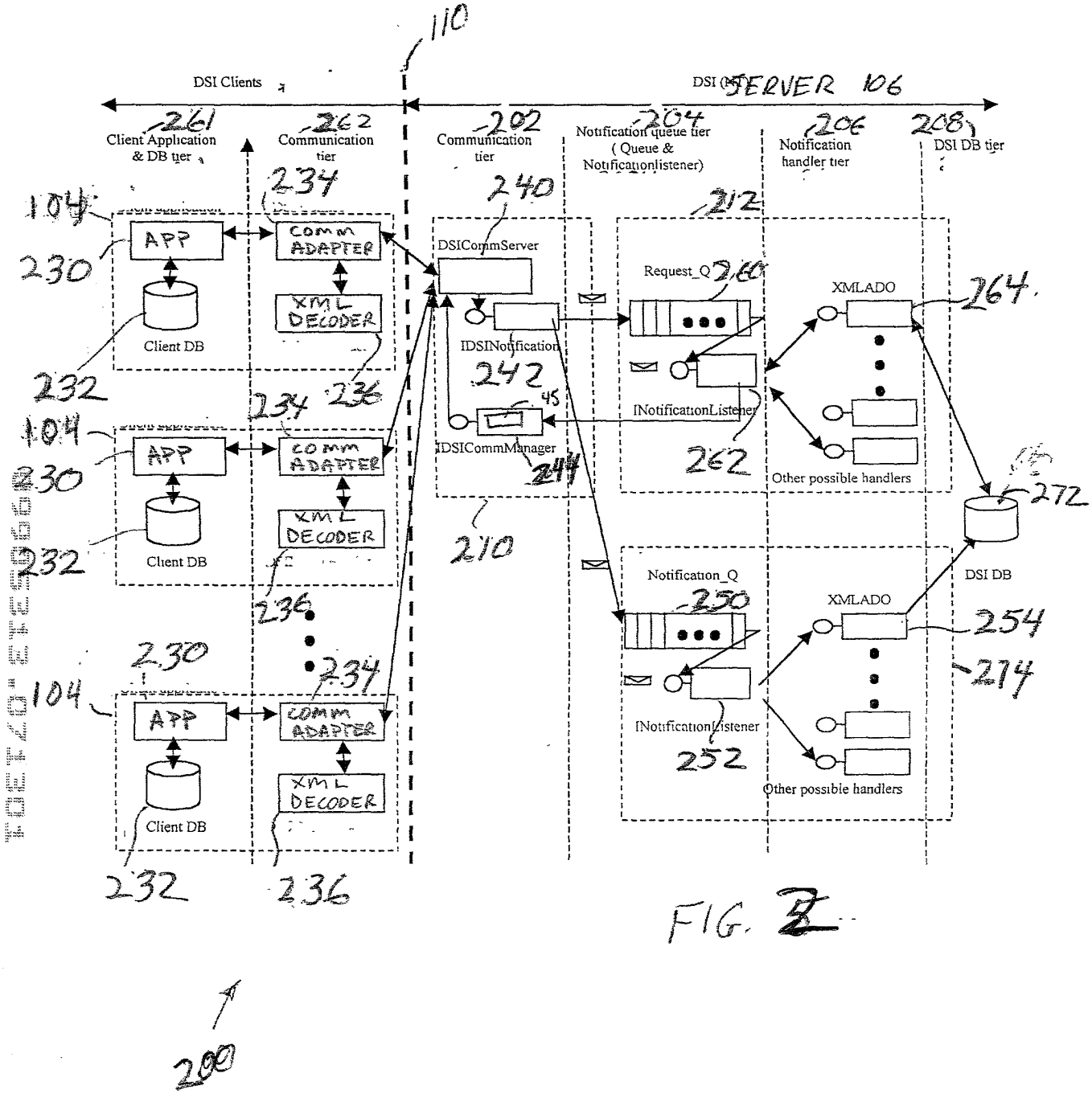
110
DSI Clients
DSI (M)
SERVER 106
261
Client Application & DB tier
262
Communication tier
202
Communication tier
204
Notification queue tier (Queue & NotificationListener)
206
Notification handler tier
208
DSI DB tier
104
230
APP
COMM ADAPTER
XML DECODER
Client DB
232
234
236
240
DSICommServer
IDSINotification
242
IDSICommManager
244
210
212
Request_Q
260
INotificationListener
262
XMLADO
264
Other possible handlers
272
Notification_Q
250
INotificationListener
252
DSI DB
254
274
200

FIG. 2

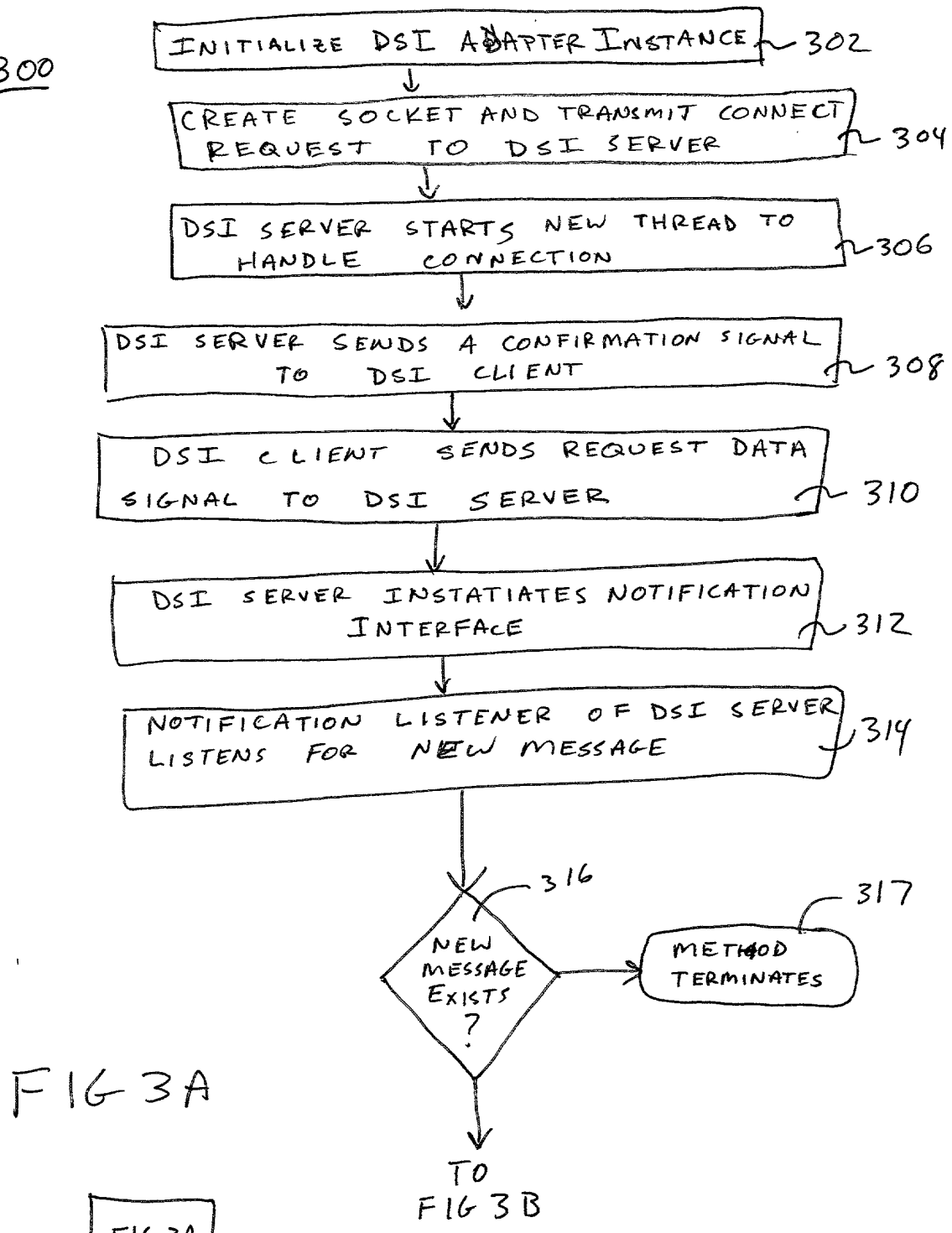
300
INITIALIZE DSI ADAPTER INSTANCE
302
CREATE SOCKET AND TRANSMIT CONNECT REQUEST TO DSI SERVER
304
DSI SERVER STARTS NEW THREAD TO HANDLE CONNECTION
306
DSI SERVER SENDS A CONFIRMATION SIGNAL TO DSI CLIENT
308
DSI CLIENT SENDS REQUEST DATA SIGNAL TO DSI SERVER
310
DSI SERVER INSTATIATES NOTIFICATION INTERFACE
312
NOTIFICATION LISTENER OF DSI SERVER LISTENS FOR NEW MESSAGE
314
316
NEW MESSAGE EXISTS ?
317
METHOD TERMINATES
TO FIG 3B

FIG 3A

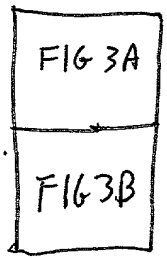
FIG 3A
FIG 3B

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

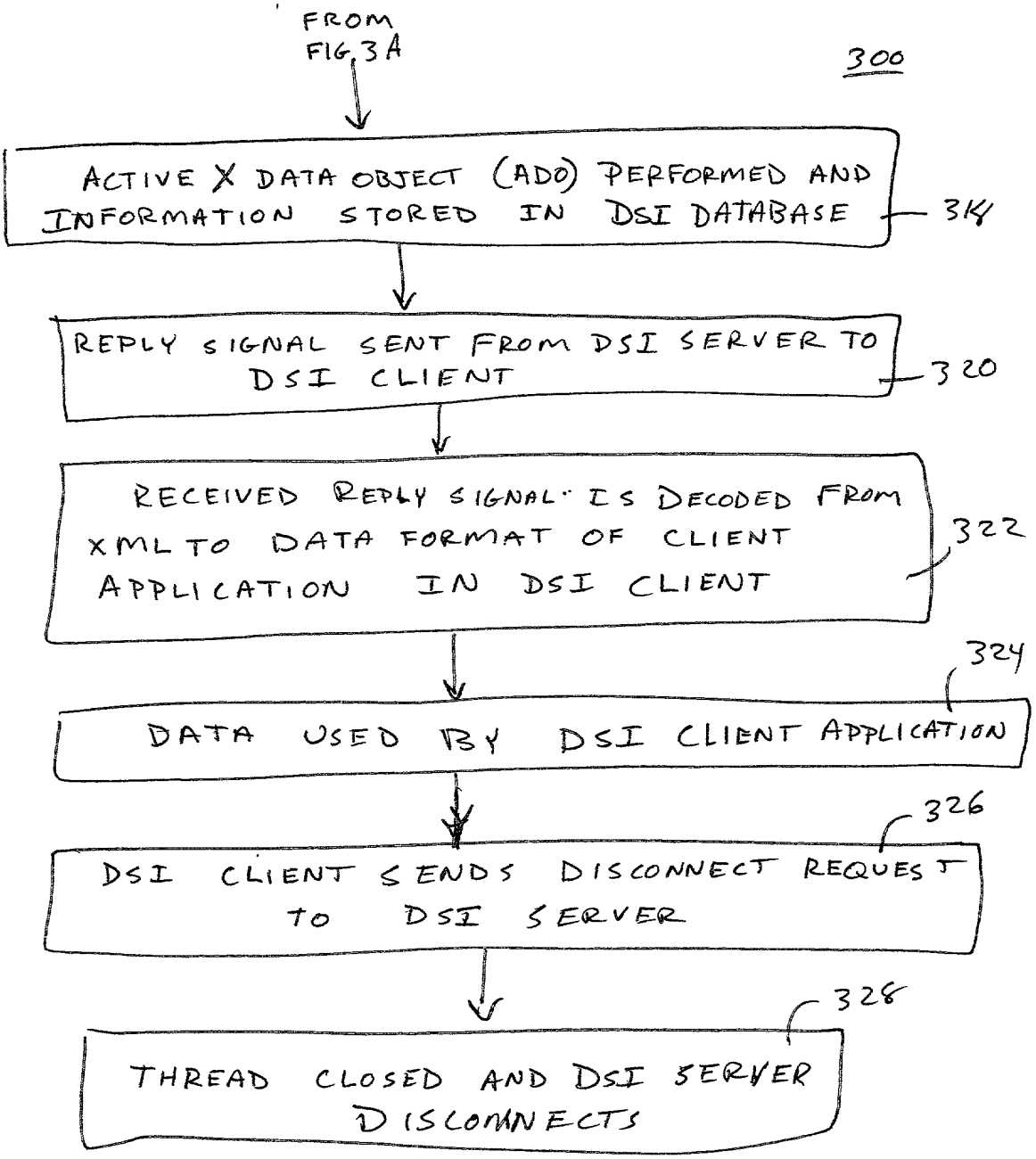

FIG. 3B

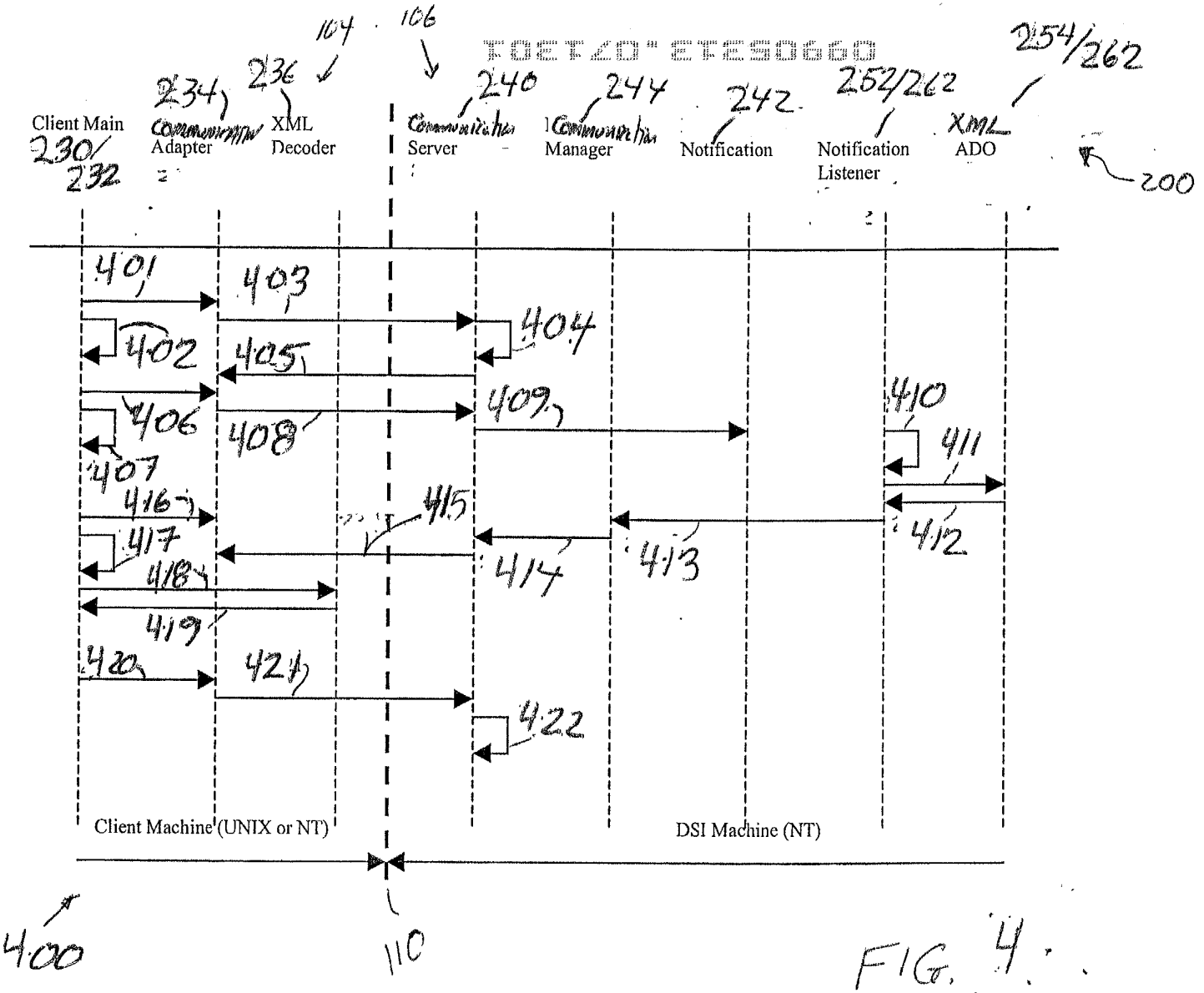
104
106
234
236
240
244
242
252/262
254/262
Client Main
230/232
Communication Adapter
XML Decoder
Communication Server
Communication Manager
Notification
Notification Listener
XML ADO
200
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
Client Machine (UNIX or NT)
DSI Machine (NT)
400
110

FIG. 4

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

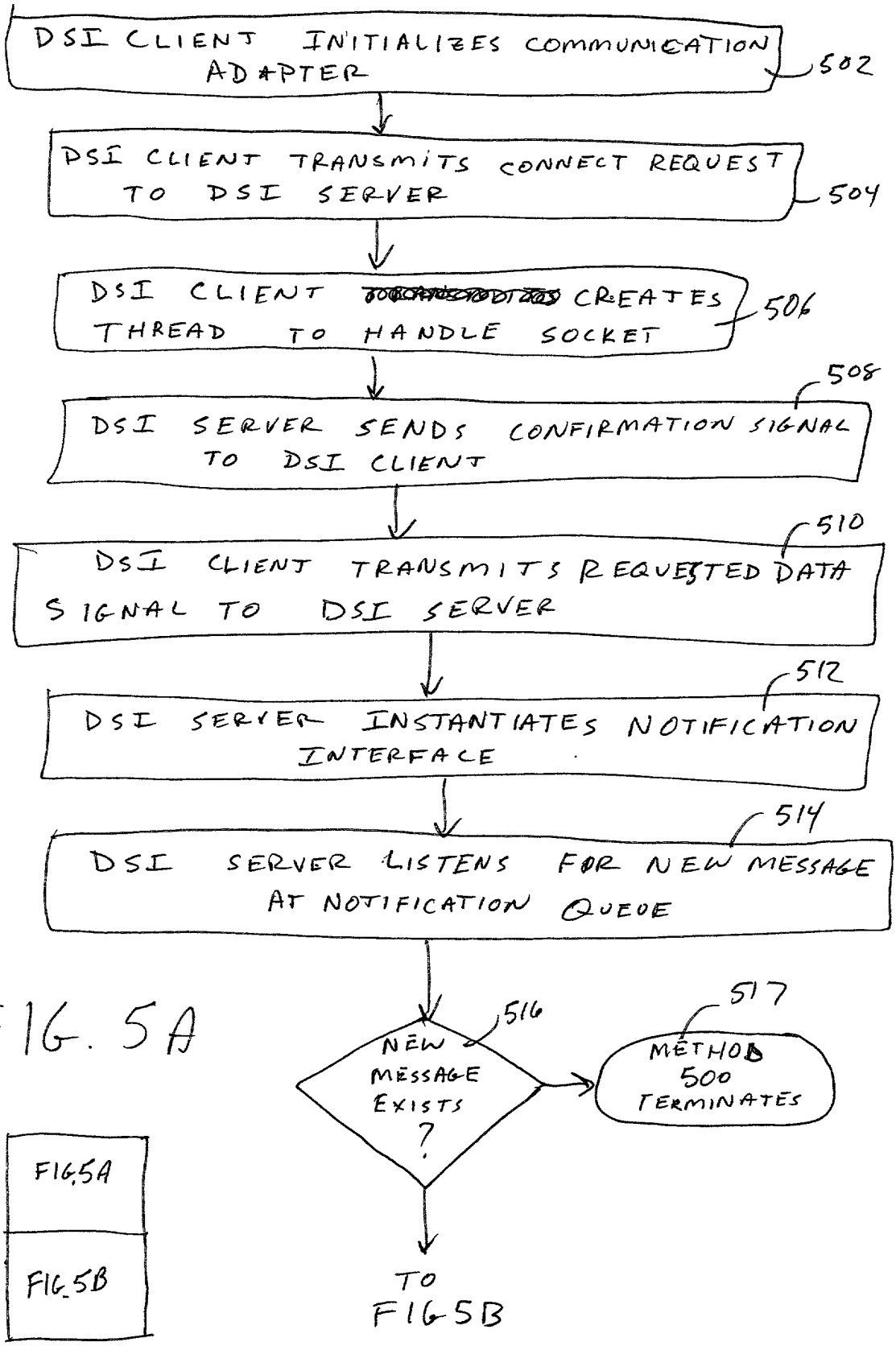

FIG. 5A

FIG.5A
FIG.5B

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

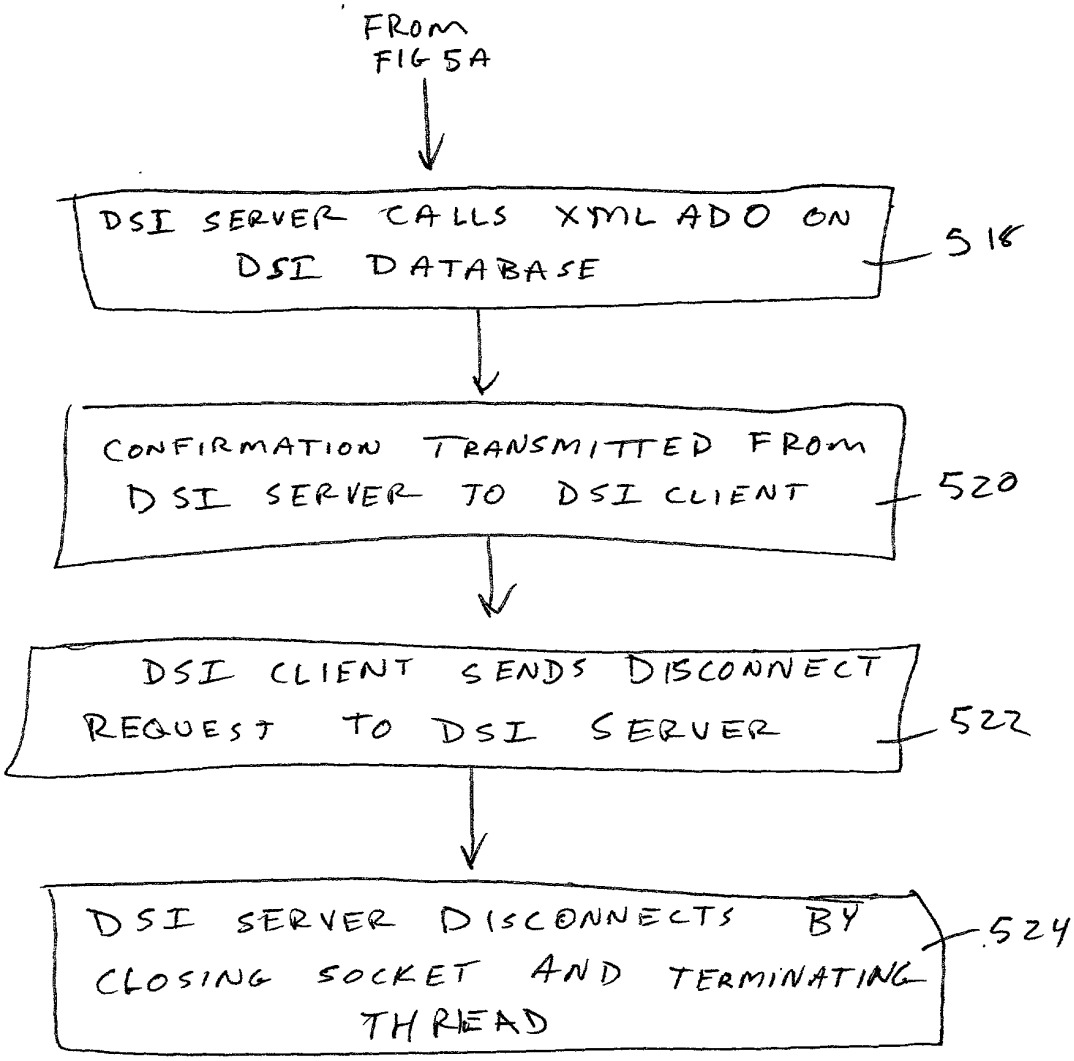

FIG. 5B

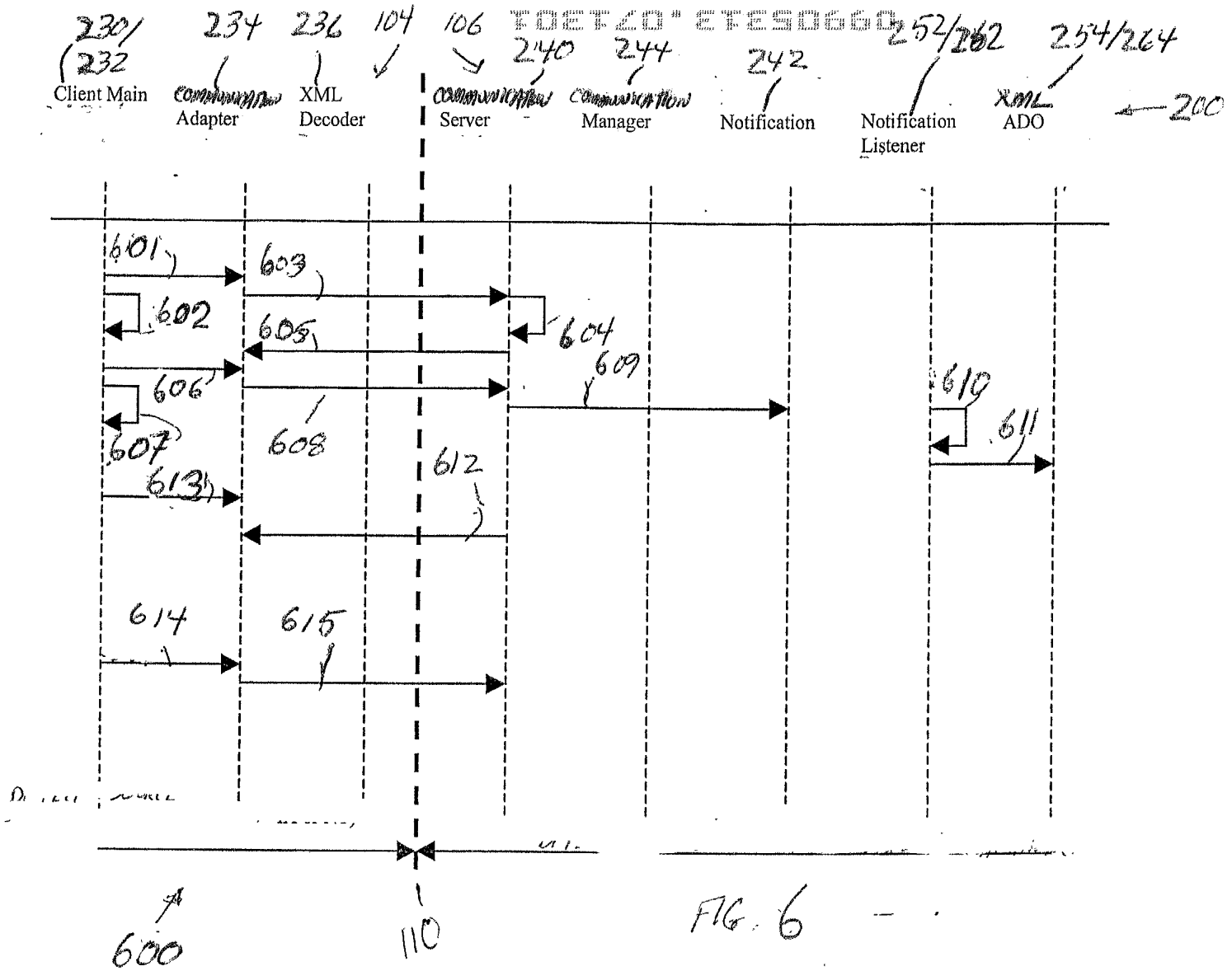
230/232
234
236
104
106
240
244
242
252/262
254/264
Client Main
Communication Adapter
XML Decoder
Communication Server
Communication Manager
Notification
Notification Listener
XML ADO
200
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
600
110

FIG. 6